NEWZEN CONSULTANT BANGALORE

NC/QC/DD-W13/2019-20/DM-W1

Date: 02-03-2020

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Drilling of Borewell in Mallasandra Colony , BHEL Mini colony Pk's Slum, Ravindra Nagara Slum, and Surrounding Area in Ward No.13.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.45	95-100
26.50	---	-
22.40	72.05	60-80
11.20	55.85	40-60
4.75	32.70	25-40
2.36	25.30	15-30
0.600	19.45	8-22
0.075	3.20	0-5

For Newzen Consultants Bangalore
Proprietor

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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TABLE 13

Sl. No	Test conducted	Test Results	Tests Confirms to IS 2386(Part I to IV) - 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & MoRTH Specification, V Revision -2013.
1.	Aggregate Impact Value	27.58%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.40%	Not more than 35.0 %
3.	Water absorption, %	0.41 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

For Newzen Consultants Bangalore

Proprietor

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NEWZEN CONSULTANT * BANGALORE *

NC/QC/DD-W13/2019-20/DM-PCC1

Date: 04-03-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Drilling of Borewell in Mallasandra Colony , BHEL Mini colony Pk's Slum, Ravindra Nagara Slum, and Surrounding Area in Ward No.13.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	67.25	0 -20	30- 70
10mm	32.55	0 -5	10- 35
4.75mm	4.30	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.60	60-95	75-100	85-100	
01.18	74.25	30-70	55-90	75-100	
600.mic	51.15	15-34	35-59	60-79	
300.mic	23.35	5-20	8-30	12-40	
150.mic	7.50	0-10	0-10	0-10	

For Newzen Consultants Bangalore
Proprietor

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NC/QC/DD-W13/2019-20/DM-C2

Date: 09-03-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Drilling of Borewell in Mallasandra Colony , BHEL Mini colony Pk's Slum, Ravindra Nagara Slum, and Surrounding Area in Ward No.13.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**154 min**	Shall not be less than 30 min
2	Final setting time	**280 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.97 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.81 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.64 N/Sq mm**	Shall not be less than 27 N/Sqmm

For Newzen Consultants Bangalore
Proprietor

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ಸಂ. ೧೦, ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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NC/QC/DD-W13/2019-20/DM-PCC2 **Date: 09-03-2020**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Drilling of Borewell in Mallasandra Colony , BHEL Mini colony Pk's Slum, Ravindra Nagara Slum, and Surrounding Area in Ward No.13.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.45	0 -20	30- 70
10mm	30.15	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.65	60-95	75-100	85-100	
01.18	74.90	30-70	55-90	75-100	
600.mic	51.15	15-34	35-59	60-79	
300.mic	24.35	5-20	8-30	12-40	
150.mic	7.50	0-10	0-10	0-10	

For Newzen Consultants Bangalore

Coordinator

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NC/QC/DD-W13/2019-20/DM-C3

Date: 10-03-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Drilling of Borewell in Mallasandra Colony , BHEL Mini colony Pk's Slum, Ravindra Nagara Slum, and Surrounding Area in Ward No.13.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	154 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.86 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.98 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	27.32 N/Sq mm	Shall not be less than 27 N/Sqmm

For Newzen Consultants Bangalore

Director

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